

PATENT
Attorney Docket No.:600-1-087 CIP1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appli	calits: Jeffrey Friedman, et al)
)
Serial	No.: 08/438,431)
)
Filed:	May 10, 1995)
)
For:	MODULATORS OF BODY)
	WEIGHT, CORRESPONDING)
	NUCLEIC ACIDS AND)
	PROTEINS AND MAGNOSTIC)
	AND THERAPEUTIC USES)
	THEREOF	
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Group Art Unit: 1812

Examiner: G. Draper

INFORMATION DISCLOSURE STATEMENT WITH FOR PTO-1449

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

In compliance with 37 C.F.R. §1.97 and the continuing duty of disclosure under 37 C.F.R. §1.56, the applicants call to the attention of the examiner the enclosed documents, listed on the attached Form PTO-1449, which may be considered material to the examination of the above-identified patent application.

As a courtest to the examiner and for ease of review, the applicalts believe that the documents listed on the accompanying Form PTO-1449 may be organized as set forth below (each listing includes: Form PTO-1449 document number, title, inventor(s), patent number and/or application number, filing date, publication date, and, where applicable, priority dates). As a further courtesy to the examiner, the applicants have included, as

Appendix A, a copy of the front page of each patent or patent application listed in the IDS and PTO Form-1449.

Pursuant to 37 C.F.R. §1.98(d), copies of the documents are not included herewith since they have been provided in USSN 08/292,345, filed August 17, 1994, and USSN 08/347,363, filed November 30, 1994, which are relied upon under 35 U.S.C. 120 for an earlier filing date in the instant application.

I. PEPTIDES

A. Full or Truncated Documents:

A1 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al. U.S. Patent No.: 5,521,283 U.S. Appl. No.: 381,666 Filed: January 31, 1995

A2 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al.
U.S. Patent No.: 5,525,705
U.S. Appl. No.: 381,370
Filed: January 31, 1995

A3 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al. U.S. Patent No.: 5,532,336 U.S. Appl. No.: 381,034 Filed: January 31, 1995

A4 Title: "Anti-Obesity Proteins" Inventors: DiMarch et al. U.S. Patent No. 5,552,522 U.S. Appl. No. 381, 040 Filed: January 31, 1995

A9 Title: "Arti-Obesity Proteins" Inventors: DiMarchi et al. U.S. Patent No.: 5,563,243 U.S. Appl. No.: 381,037 Filed: January 31, 1995

A10 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al.
U.S. Patent No.: 5,563,244
U.S. Appl. No.: 381,050
Filed: January 31, 1995

A11 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al.
U.S. Patent No.: 5,563,245
U.S. Appl. No.: 381,163
Filed: January 31, 1995

- A12 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al. U.S. Patent No.: 5,567,678 U.S. Appl. No.: 381,041 Filed: January 31, 1995
- A13 Title: "Anti-Obesity Proteins"
 Inventors: Basinski et al.
 U.S. Patent No.: 5,567,803
 U.S. Appl. No.: 383,649
 Filed: February 6, 1995
 Priority Data: January 31, 1995 (U.S. Appl. No. 381,047)
- Title: "Anti-Obesity Proteins Inventors: DiMarchi et al. U.S. Patent No.: 5,569,743 U.S. Appl. No.: 381,054 Filed: January 31, 1995
- A15 Title: "Anti-Obesity Proteirs"
 Inventors: Basinski et al
 U.S. Patent No.: 5,569,744
 U.S. Appl. No.: 383,632
 Filed: February 6, 1995
 Priority Data: January 31, 1995 (U.S. Appl. No. 381,247)
- A16 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al. U.S. Patent No.: 5,574,133 U.S. Appl. No.: 381,049 Filed: January 31, 1995
- A17 Title: "Anti-Obesity Proteins" Inventors: DiMarchi et al. U.S. Patent No.: 5,580,954 U.S. Appl. No.: 381,057 Filed: January 31, 1995
- A19 Title: "Anti-Obesity Proteins"
 Inventors: Basinski et al.
 U.S. Patent No.: 5,594,104
 U.S. Appl. No.: 384,492
 Filed: February 6, 1995
 Priority Data: January 31, 1995 (U.S. Appl. No. 381,266)

A20 Title: "Anti-Obesity Proteins"

Inventors: Basinski et al. U.S. Patent No.:5,605,886 U.S. Appl. No.: 442,916

Filed: May 17, 1995

Priority Data: February 6, 1995 (U.S. Appl. No. 383,648) January 31, 1995 (U.S. Appl. No. 381,265)

A23 Title: "Anti-Obesity Proteins"

Inventors: Basinski *et al.*U.S. Patent No.: 5,691,309
U.S. Appl. No.: 383,650
Filed: February 6, 1005

Filed: February 6, 1995

Priority Data: January 31, 1995 (U.S. Appl. No. 381,451)

B1 Title: "Anti-Obesity Proteins"

Inventors: Basinski et al. Appl. No.: 96300612.7 Filed: January 29, 1996

Publication No.: EP 0 725 978 A1 Publication Date: August 1, 1996

Priority Data: January 31, 1995 (U.S. Appl. No. 381,048) February 6, 1995 (U.S. Appl. No. 383,638)

B2 Title: "Anti-Obesity Proteins"

Inventors: Basiysk et al. Appl. No.: 9630061 .5 Filed: January 29, 1996

Publication No.: EP 0 725 079 A1 Publication Date: August 1996

Priority Data: January 31, 1995 (U.S. Appl. No. 381,048)

February 6, 1995 (U.S. Appl. No. 383,638) June 22, 1995 (U.S. Appl. No. 60/000,450) August 11, 1995 (U.S. Appl. No. 60/002,161)

Title: "Rat Obese Gene, Its Gene Product and Its Production"

Inventors: Nakao et al. Appl. No.: 96105353.5 Filed: April 3, 1996

Publication No.: EP 0 736 599 A2 Publication Date: October 9, 1996

Priority Data: April 3, 1995 (JP Appl. No. 77966/95)

B5 Title: "Obesity Gene Product"

Inventors: Hsiung *et al*. Appl. No.: 96303478.0 Filed: May 16, 1996

Publication No.: EP 0 743 321 A2 Publication Date: November 20, 1996

Priority Data: May 19, 1995 (US Appl. No. 445,305)

B6 Title: "Rhesus OB Protein and DNA"

Inventors: Basinski et al. Appl. No.: 96303601.7 Filed: May 21, 1996

Publication No.: EP 0 744 408 A2 Publication Date: November 27, 1996

Priority Data: May 26, 1995 (U.S. Appl. No. 452,228) May 26, 1995 (U.S. Appl. No. 451,335)

B15 Thle: "Rat Obese Gene, Product and Method of Producing

The reof"

Inventors: Fujisawa et al. Appl. No.: 96JP-0079916

Filed: April 2, 1996

Publication No.: JP 8/333394

Publication Date: December 17, 1996

Priority Data: April 3, 1995 (JP Appl. No. 95JP-0077966)

B20 Title: "Arti-Obesity Profeins"

Inventors: Basinski et al.
Appl No.: PCT/US96/0094

Filed: January 29, 1996

Publication No.: WO 96/23514 Publication Date: August 8, 1996

Priority Data: January 31, 1995 (U. Appl. No. 08/381,247)

January 31, 1995 (U.S. Appl. No. 08/381,451) January 31, 1995 (U.S. Appl. No. 08/381,266)

January 31, 1995 (U.S. Appl No. 08/381,370)

January 31, 1995 (U.S. Appl. No. 08/381,047)

January 31, 1995 (U.S. Appl. No. 08/381,041)

January 31, 1995 (U.S. Appl. No. 08/381,057)

January 31, 1995 (U.S. Appl. No. 08/381,050)

January 31, 1995 (U.S. Appl. No. 08/81,034)

January 31, 1995 (U.S. Appl. No. 08/381,040)

January 31, 1995 (U.S. Appl. No. 08/381, 63)

January 31, 1995 (U.S. Appl. No. 08/381,034)

January 31, 1995 (U.S. Appl. No. 08/381,666) January 31, 1995 (U.S. Appl. No. 08/381,049) January 31, 1995 (U.S. Appl. No. 08/381,037) February 6, 1995 (U.S. Appl. No. 08/383,632) February 6, 1995 (U.S. Appl. No. 08/383,649) February 6, 1995 (U.S. Appl. No. 08/383,650) February 6, 1995 (U.S. Appl. No. 08/383,650)

B21 Title: "Anti-obesity Proteins"
Inventors: Basinski *et al.*Appl. No.: PCT/US96/00948
Filed: January 29, 1996

Publication No.: WO 96/23515 Publication Date: August 8, 1996

Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,048) February 6, 1995 (U.S. Appl. No. 08/383,638)

B22 Tyle: "Anti-obesity Proteins" Inventors: Basinski *et al.* Appl. No.: PCT/US96/00950 Filed: January 29, 1996

Publication No.: WO 96/23516 Publication Date: August 8, 1996

Priority Data: Vanuary 31, 1995 (U.S. Appl. No. 08/381,265) Furuary 6, 1995 (U.S. Appl. No. 08/383,648) May 17, 1995 (U.S. Appl. No. 08/442,916)

B23 Title: "Anti obesity Proteins" Inventors Basinski *et al.* Appl. No.: PCT/US96/00952 Filed January 29, 1996 Publication No.: WO 96/2351

Publication No.: WO 96/2351

Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,048) February 6, 1995 (U.S. Appl. No. 08/383,638) June 22, 1995 (U.S. Appl. No. 60/000,450) August 11, 1995 (U.S. Appl. No. 60/002,161) B33 Title: "Biologically Active Peptide Fragments of OB Protein"

Inventors: Smith et al.

Appl. No.: PCT/GB96/01094

Filed: May 7, 1996

Publication No.: WO 96/34885

Publication Date: November 7, 1996

Priority Data: May 5, 1995 (GB Appl. No. 9509164.

B36 Title: "Obesity Gene Product"

Inventors: Hsiung et al.

Appl. No.: PCT/US96/07045

Filed: May 16, 1996

Publication No.: WO 96/36644

Publication Date: November 21, 1996

Priority Data: May 19, 1995 (U.S. Appl. No. 08/445,305)

B37 Title: "Rhesus OB Protein and DNA"

Inventors: Basinski et al.

Appl No. PCT/US96/07329

Filed: May 21, 1996

Publication No.: WO 96/3/1517

Publication Date: November 28, 1996

Priority Data: May 26, 1995 (U.S. Appl. No. 08/451,335)

May 26, 1995 (U.S. Appl. No. 08/452,228)

B47 Title: "Polypept de Fragments Derived From The Obese Gene

Product"

Inventors: Mapelli et d'

Appl. No.: PCT/US96/13365

Filed: October 28, 1996

Publigation No.: WO 97/16550

Publication Date: May 9, 1997

Priority Data: Nov.2, 1995 (U.S. Appl. No. 60/007,789)

B51 Title: "Mutational Variants Of Mammalian Ob Gene Proteins"

Inventors: Altmann et al.

Appl. No.: PCT/US96/18561

Filed: December 3, 1996

Publication No.: WO 97/20933

Publication Date: June 12, 1997

Priority Data: Dec. 6, 1995 (U.S. Appl. No. 08/368,077)

B68 Title: "Fragments of Leptin (OB Protein)"

Inventors: Al-Barazanji et al. Appl. No.: PCT/EP97/02968

Filed: June 4, 1997

Publication No.: WO 97/46585

Publication Date: December 11, 1997

Priority Data: June 6, 1996 (G.B. Appl. No. 961177 19)

Sept. 5, 1996 (G.B. Appl. No. 9618 40.0) Feb. 20, 1997 (G.B. Appl. No. 97/3493.8)

B76 Title: "Canine OB Protein Compositions And Methods"

Inventor: Hernday, N.

Appl. No.: PCT/US97/03209 Filed: February 28, 1997 Publication No.: WO 97/32022

Publication Date: September 4, 199

Priority Data: March 1, 1996 (U.S. Appl. No. 08/609,408)

B. Thioether Bond

Documents:

A18 Title: "Anti-besity Proteins"

Inventors: Becker et al. U.S. Patent No. 5,594,101 U.S. Appl. No. 338,021 Filed: March 3, 1993

B29 Title: "Anti-obesity Proteins"

Inventors: Becker et al. Appl No.: PCT/US96/0293

Filed: March 1, 1996

Publication No.: WO 96/27385
Publication Date: September 12, 1996

Priority Data: March 3, 1995 (U.S. Appl. No. 08/398,021)

Title: "Obesity Protein Intermediates and Their Preparation

and Use"

Inventors: Hale et al.

Appl. No.: PCT/US96/10613

Filed: June 20, 1996

Publication No.: WO 97/00886 Publication Date: January 9, 1997

Priority Data: June 22, 1995 (U.S. Appl. No. 60/000, 451)

C. Cross-Linked Documents:

A5 Title: "Anti-obesity Proteins"
Inventors: Basinski et al.
U.S. Patent No.: 5,552,523
U.S. Appl. No.: 384,183
Filed: February 6, 1995

Priority Data: January 31, 1995 (U.S. Appl. No. \$81,458)

A6 Title: "Anti-obesity Proteins"
Inventors: Basinski et al.
U.S. Patent No.: 5,552,524
U.S. Appl. No.: 384,292
Filed: February 6, 1995

Priority Data: January 31, 1995 (U.S. Appl. No. 381,661)

A7 Tyle: "Anti-obesity Proteins"
Inventors: Basinski et al.
U.S. Patent No.: 5,554,727
U.S. Appl. No.: 383,631
Filed: February 6, 1995

Priority Data: January 31, 1995 (U.S. Appl. No. 381,033)

A8 Title: "Anti-obesity Proteins"
Inventors: Basit ski et al.
U.S. Patent No.: 5,359,208
U.S. Appl. No.: 383,639
Filed: February 6, 1995
Priority Data: January 31, 1995 (U.S. Appl. No. 381,031)

B19 Title: "Anti-obesity Proteins"

Inventors: Basinski *et al.*Appl. No.: PCT/US96/00946

Filed: January 29, 1996

Publication No.: WO 96/23513 Publication Date: August 8, 1996

Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,661) February 6, 1995 (U.S. Appl. No. 08/384,292) B24 Title: "Anti-obesity Proteins"

Inventors: Basinski et al.

Appl. No.: PCT/US96/01345

Filed: January 29, 1996

Publication No.: WO 96/23518 Publication Date: August 8, 1996

Priority Data: January 31, 1995 (U.S. Appl. No. 08/3/1,031)

February 6, 1995 (U.S. Appl. No. 08/383,639)

B25 Title: "Anti-obesity Proteins"

Inventors: Basinski et al.

Appl. No.: PCT/US96/01412

Filed: January 29, 1996

Publication No.: WO 96/23519
Publication Date: August 8, 1996

Priority Data: Jan. 31, 1995 (U.S. Appl. No. 08/381,458)

Feb. 6, 1995 (U.S. Appl. No. 08/384,183)

B26 Title: "Anti-obesity Proteins"

Inventors: Basinski et al.

Appl. No.: PCT/US96/01/15

Filed: January 29, 1996,

Publication No.: WO 6/23520 Publication Date: August 8, 1996

Priority Data: January 31, 1995 (U.S. Appl. No. 08/381,033)

February 6, 1995 (U.S. Appl. No. 08/383,631)

D. Other Modifications

Documents:

B4 Title: Recombinant Obese (Qb) Proteins"

Inventors: Campfield et al. Appl. No.: 96106408.6

Filed: April 24, 1996

Publication No.: EP 0 741 187 A2 Publication Date: November 6, 1996

Priority Data: May 5, 1995 (U.S. Appl. No. 435,777)

June 7, 1995 (U.S. Appl. No. 484,629)

B16 Title: "Recombinant Obese (OB) Protein"

Inventors: Campfield *et al.* Appl. No.: 96JP-0112739

Filed: May 7, 1996

Publication No.: JP 9-3098

Publication Date: January 7, 1997

Priority Data: June 7, 1995 (Appl. No. 95US-0484629)

May 5, 1995 (Appl. No. 95US-0435777)

B18 Title: "Appetite Suppression Factor and Related Methods"

Inventor: Weigle et al.

Appl No.: PCT/US96/01471 Filed: January 22, 1996

Publication No.: WO 96/22308 Publication Date: July 25, 1996

Priority Data: January 20, 1995 (U.S. Appl. No. 08/377,068)

April 10, 1995 (U.S. App. No. 08/419,214)

June 7, 1995 (U.S. Appl. No. 08/486,459) June 7, 1995 (U.S. Appl. No. 08/487,111)

June 7, 1995 (U.S. Appl. No. 08/486,450)

October 4, 1995 (U.S. Appl. No. 08/540,242)

B40 Title: "Chimeric Leptin Fused to Immunoglobulin Domain

and Use"

Inventors: Brown et al.

Appl No.: PCT/GR96/01388

Filed: June 11, 1996

Publication No.: WO \$7/00319 Publication Date: Januar 3, 1997

Priority Data: June 13, 1955 (GB Appl. No. 9511935.0)

B52 Title: "Ob Protein Derivatives Having Prolonged Half-Life"

Inventors: De Sauvage *et al.*Appl. No.: PCT/US96/20718
Filed: December 19, 1996

Publication No.: WO 97/24440 Publication Date: July 10, 1997

Priority date: Dec. 27, 1995 (U.S. Appl. No. 08/579,494)

June 20,1996 (U.S. Appl. No. 08/667,184)

B69 Title: "Ob Protein Binding Protein"

Inventor: Becker, G.W.

Appl. No.: PCT/US97/09891

Filed: June 6, 1997

Publication No.: WO 97/46587

Publication Date: December 11, 1997

Priority Data: June 7, 1996 (U.S. Appl. No. 60/019,284)

B77 Title: "Fibulin Pharmaceutical Compositions And Kelated

Methods"

Inventor: Bennett, L.G.

Appl. No.: PCT/US97/06280

Filed: April 3, 1997

Publication No.: WO 97/38014 Publication Date: October 16, 1997

Priority Data: April 4, 1996 (U.S. Appl. No. 08/627,636)

II. METHODS FOR THE PREPARATION OF ANTI-OBESITY PROTEINS

Documents:

A21 Title: "Process For Preparing Anti-Obesity Protein"

Inventor: Macketar, W.C. U.S. Patent No. 3 614,379 U.S. Appl. No.: 429 362

Filed: April 26, 1995

B7 Title: "Process For Preparing Anti-Obesity Protein"

Inventor: Mackellar, W.C. Appl., No.: 96302805.5 Filed: April 22, 1996

Publication No.: EP 0 745 610 A2 Publication Date: December 4, 1996

Priority Data: April 26, 1995 (U.S. Appl. No. 429,362)

B31 Title: "Anti-Obesity Agents"

Inventors: Beeley et al.

Appl. No.: PCT/US96/04909

Filed: April 5, 1996

Publication No.: WO 96/31526 Publication Date: October 10, 1996

Priority Data: April 6, 1995 (U.S. Appl. No. 08/419,598)

B32 Title: "Process For Preparing Anti-Obesity Protein"

Inventor: Mackellar, W.C. Appl. No.: PCT/US96/05703

Filed: April 24, 1996

Publication No.: WO 96/34111 Publication Date: October 31, 1996

Priority Data: April 26, 1995 (U.S. Appl. No. 08/429/362)

III. OB GENE PRODUCT ANTIBODIES

Documents:

27 Title: "OB Gene Product Antibodies"

Inventors: Heath et al.

Appl. No.: PCT/US96/00957

Filed: January 29, 1996

Publication No.: WO 96/23815 Publication Date: August 8, 1996

Priority Data: January 31, 1/995 (U.S. Appl. No. 08/381,264)

IV. OB DNA-RELATED

A. DNA

Documents:

B9 Title: "DNA Encoding Primate Leptins as Medicinal

Proteins"

Inventors: Basinski *et al.*Appl No.: 96306721.0
Filed: September 16, 1996

Publication No.: EP 0 764 722 A2 Publication Date: March 26, 1997

Priority Data: September 19, 1995 (V.S. Appl. No. 3,935) September 19, 1995 (U.S. Appl. No. 3,936)

B28 Title: "Human Obesity Gene"

Inventors: Basinski et al.

Appl. No.: PCT/US96/01411

Filed: January 29, 1996

Publication No.: WO 96/24670 Publication Date: August 15, 1996

Priority Data: Feb. 6, 1995 (U.S. Appl. No. 08/384,433)

May 26, 1995 (U.S. Appl. No. 08/451,25%)

B34 Title: "Nucleic Acids For Treating Obesity"

Inventors: Giese et al.

Appl. No.: PCT/US96/06609

Filed: May 8, 1996

Publication No. WO 96/35787

Publication Date: November 14, 1996

Priority Data: May 8, 1995 (U.S. Appl. No. 08/437, \$34)

B39 Title: "Method For The Detection Of Compounds/That

Modulate The Effects Of The Obese Protein"

Inventors: Beeley et al.

Appl. No.: PCT/EP96/02291

Filed: May 28, 1996

Publication No.: WO 96/38586

Publication Date: December 5, 1996

Priority Data: May 30, 1995 (G.B. Appl. No. 9510857.7)

June 8, 1995 (G.B Appl. No. 9511602.6)

B43 Title: "DNA Encoding Medicinal Proteins"

Inventors: Basinski et al.

Appl. No.: PCT/US96/14/810

Filed: September 16, 1996

Publication No.: WO 97/11192

Publication Date: March 27, 1997

Priority Data: Sept. 19, 1995 (U.S. Appl. No. 60/003,935)

Sept. 19, 1995 (U.S. Appl. No. 60/003,936)

B. Gene Regulation

Documents:

A24 Title: Transcriptional Promoter Of The Murine Obesity

Gene"

Inventors: de la Brousse et al.

U.S. Patent No.: 5,698,389

Appl. No.: 558,545

Filed: November 16, 1995

B30 Title: "Modulators Of OB Gene And Screening Methods

Therefor"

Inventors: Briggs et al.

Appl. No.: PCT/US96/03808

Filed: March 19, 1996

Publication No.: WO 96/29405

Publication Date: September 26, 1996

Priority Data: March 20, 1995 (U.S. Appl. No. 08/408,584)

April 5, 1995 (U.S. Appl. No. 08/418,096) August 2, 1995 (U.S. Appl. No. 08/510,584) October 30, 1995 (U.S. Appl. No. 08/558,588) Nov. 21, 1995 (U.S. Appl. No. 60/007,390) Nov. 30, 1995 (U.S. Appl. No. 60/007,721) Dec.14, 1995 (U.S. Appl. No. 60/008,601)

B49 Title: "The Transcriptional Promote Of The Obesity Gene"

inventors: de la Brousse et al.

Appl. No.: PCT/US96/18474

Filed: November 18, 1996

Publication No.: WO 97/18228 Publication Date: May 22/1997

Priority date: Nov. 16, 4995 (U.S. Appl. No. 08/558,545)

V. METHODS/MEDICAL DIAGNOSIS OR TREATMENT

A. Methods for Treatment of Obesits

Documents:

B17 Title: "Lompositions And Methods For The Treatment Of

Body Weight Disorders, Including Obesity"

Inventor: Tartaglia, L.

Appl. No.: PCT/US95/10918

Filed: August 23, 1995

Publication No.: WO 96/05861

Publication Date: February 29, 1996

Priority Data: August 23, 1994 (U.S. Aphl. No. 294,522)

June 6, 1995 (U.S. Appl. No. 470,868)

B48 Title: "Inhibition Of Fatty Acid Synthase As A Means To

Reduce Adipocyte Mass"
Inventors: Kuhajda et al.
Appl. No.: PCT/US96/17678
Filed: November 15, 1996
Publication No.: WO 97/18806
Publication Date: May 29, 1997

Priority Data: Nov. 17, 1995 (U.S. Appl. No. 60/906,940)

B 71 Title: "OB Protein Compositions and Method".

Inventors: Pelleymounter *et al.* Appl. No.: PCT/US96/08225

Filed: May 30, 1996

Publication No.: WO 96/40912 Publication Date: December 19, 1998

Priority Data: June 7, 1995 (U.S. Appl. No. 08/474.833

B72 Nitle: "Methods of Reducing Of Maintaining Reduced Levels.

of Rlood Lipids Using OB Protein Compositions"

Inventors: Pelleymounter et al. Appl. No.: PCT/US96/12674

Filed: August 2, 1996

Publication No.: WO 97/06816 Publication Date: February 27, 1997

Priority Data: Agust 17, 1995 (U.S. Appl. No. 08/516,263)

B. Methods for Treatment of Diabetes

Documents:

B42 Title "Methods For Treating Diabetes"

Inventor: Stephens, T.W.

Appl. No.: PCT/US96/10983

Filed: June 26, 1996

Publication No.: WO 97/02004 Publication Date: January 23, 1997

Priority Data: June 30, 1995 (U.S. Appl No. 60/000,718)

C. Methods for Treatment/Combination Therapy Documents:

B8 Title: "Methods Of Treating Neuropeptide Y-Associated

Conditions"

Inventors: Bue-Valleskey et al.

Appl. No.: 96304723.8 Filed: June 26, 1996

Publication No.: EP 0 759 441 A2 Publication Date: February 26, 1997

Priority Data:

June 30, 1995 (U.S. Appl. No. 740)

October 27, 1995 (U.S. Appl. No. 5910)

June 30, 1995 (U.S. Appl. No. 752)

October 27, 1995 (U.S. Appl. No. 5911)

B35 Title: "Susceptibility Gene For Obesity And Type II Diabetes

Mellitus"

Inventors: Shuldiner *et al.* Appl. No.: PCT/US96/072/8

Filed: May 17, 1996

Publication No.: WO 96/36641

Publication Qate: November 21, 1996

Priority Data: May 19, 1995 (U.S. Appl. No. 08/446,530)

B44 Title: "Liposome Formulations Of 5β Steroids"

Inventors: Rubinfeld & al. Appl. No.: PCT/US96/\$507

Filed: September 27, 1990

Publication No.: WO 97/13300 Publication Date: April 17, 1997

Priority Data: Oct. 12, 1995 (U.S. Appl. No. 08/542,083)

Title: "Combination Therapy For The Treatment Of Diabetes

And Obesity"

Inventor: Smith, R.G.

Appl. No.: PCT/US96/17444

Filed: October 31, 1996

Publication No.: WO 97/16189 Publication Date: May 9, 1997

Priority Data: Nov. 1, 1995 (U.S. Appl. No. 60/007, 138)

Feb. 22, 1996 (G.B. Appl. No. 9603724.)

D. Methods for Treatment/Other

Documents:

B38 Title: "Methods For Treating Anorexia"

Inventor: Beasley, C.M. Jr. Appl. No.: PCT/US96/07467

Filed: May 23, 1996

Publication No.: WO 96/38152 Publication Date: December 5, 1996

Priority Data: June 1, 1995 (U.S. Appl. No. 08/457,249)

B45 Title: "Methods For Restoring Or Enhancing Reproductive

Function In Reproductively Impaired Hosts"

Inventor: Chehab, F.F.

Appl. No.: PCT/US96/17163

Filed: October 22, 1996

Rublication No.: WO 97/15322

Publication Date: May 1, 1997

Priority Data: Oct. 22, 1995 (U.S. Appl. No. 60/006,106)

B60 Title: "Methods For Using The Obese Gene And Its Gene

Product To Stimulate Hematopoietic Development"

Inventors: Shodgrass *fet al*. Appl. No.: PCT/US97/00767

Filed: January 2 1997

Publication No.: WO 97/27286

Publication Date: July 31, 1997

Priority Data: January 23, 1996 (U.S. Appl. No. 08/589,915)

March 20, 1996 (U.S. Appl. No. 08/618,957) Sept. 13, 1996 (U.S. Appl. No. 08/713,296)

B73 Title: "Methods of Increasing Dean Tissue Mass Using OB

Protein Compositions"

Inventors: Pelleymounter et al.

Appl. No.: PCT/US96/17718

Filed: November 4, 1996

Publication No.: WO 97/18833

Publication Date: May 29, 1997

Priority Data: Nov. 22, 1995 (U.S. Appl. No. 08/561,732)

VI. OBESITY PROTEIN FORMULATIONS

Documents:

B10 Title: "Obesity Protein Formulations"

Inventors: Beals et al Appl. No.: 97300299.1 Filed: January 17, 1997

Publication No.: EP 0 784 979 A2 Publication Date: July 23, 1997

Priority Data: February 7, 1996 (GB Appl. No. 9602408)

January 19, 1996 (U.S. Appl. No. 10229)

B11 Title: Obesity Protein Formulations"

Inventors: Beals et al. Appl. No.: 97300300.7 Filed: January 17, 1997

Rublication No.: EP 0 784 981 A2 Publication Date: July 23, 1997

Priority Data: February 7, 1996 (G.B. Appl. No. 9602410) January 19, 1996 (U.S. Appl. No. 10357)

B12 Title: Obesity Protein Formulations"

Inventors: Beals et al Appl. No.: 97300302.3 Filed: January 1, 1997

Publication No. ER 0 784 982 A2 Publication Date: July 23, 1997

Priority Data: February 7, 1996 (G.B. Appl. No.9602409) January 19, 1996 (U.S. Appl. No. 10257)

B13 Title: "Obesity Protein Formalations"

Inventors: Beals et al. Appl. No.: 97300301.5 Filed: January 17, 1997

Publication No.: EP 0 786 256 A2 Publication Date: July 30, 1997

Priority Data: January 19, 1996 (U.S. Appl. No. 10,244)

February 7, 1996 (G.B. App) No. 9,602,406)

B14 Title: "Formulations of Obesity Protein"

Inventors: Beals *et al.*Appl. No.: 97301995.3
Filed: March 24, 1997

Publication No.: EP 0 797 999 A2 Publication Date: October 1, 1997

Priority Data: March 26, 1996 (U.S. Appl. No. 1417/) April 5, 1996 (U.S. Appl. No. 1495/)

B54 Title: "Obesity Protein Formulations"

Inventors: Beals et al.

Appl. No.: PCT/US97/00864

Filed: January 17, 1997

Publication No.: WO 97/26004 Publication Date: July 24, 1997

Priority Data: January 19, 1996 (U.S. Appl. No. 60/010,229) February 7, 1996 (GB Appl. No. 9602408.8)

B55 Title "Obesity Protein Formulations"

Inventors: Beals et al.

Appl. No.: PCT/US97/09568

Filed: January 17, 1997

Publication No.: WO 97/26011 Publication Date: July 24, 1997

Priority Data: Jay. 19, 1996 (U.S. Appl. No. 60/010,257) Jebruary 7, 1996 (G.B. Appl. No. 9602409.6)

B56 Title: "Obesity Protein Formulations"

Inventors Beals et al.

Appl. No.: PCT/US97/00700

Filed January 17, 1997

Publication No.: WO 97/26012 Publication Date: July 24, 1997

Priority Data: January 19, 1996 (U.S. Appl. No. 60/010,357) February 7, 1996 (G.B. Appl. No. 9602410.4)

757 Title: "Obesity Protein Formulations"

Inventors: Beals et al.

Appl. No.: PCT/US97/00900

Filed: January 17, 1997

Publication No.: WO 97/26013 Publication Date: July 24, 1997

Priority Data: January 19, 1996 (U.S. Appl. No. 60/010,244)

February 7, 1996 (GB Appl. No.9602400 2)

B59 Title: "Obesity Protein Analog Compounds and Formulations

Thereof"

Inventors: Hoffman et al. Appl. No.: PCT/US97/01189

Filed: January 24, 1997

Publication No.: WO 97/26916 Publication Date: July 31, 1997

Priority Data: Jan. 25, 1996 (U.S. Appl. No. 60/01/1,055)

B61 Title: "Obesity Protein Compounds and Formulations

Thereof"

Inventor: Hoffman, J.A. Appl. No.: PCT/US97/01188

Filed: January 24, 1997

Publication No.: WO 97/28824 Rublication Date: August 14, 1997

Priority Data: Feb. 6, 1996 (U.S. Appl. No. 60/011,238)

B63 Title: "Formulations Of OB Protein"

Inventors: Reals et al.

Appl. No.: PCT/US9//04914

Filed: March 24, 1997

Publication No.: WO 97/35620 Publication Date: October 2, 1997

Priority Data March 26, 1996 (U.S. Appl. No. 60/014,177) April 5, 1996 (U.S. Appl. No. 60/014,951)

VII. RECEPTORS

A. OB Receptors

Documents:

A22 Title: "HU-B1.219, A Novel Human Hamatopoietin

Receptor"

Inventors: Snodgrass et al. U.S. Patent No.: 5,643,748 U.S. Appl. No.: 306,231 Filed: September 14, 1994

B50 Title: "The OB Receptor And Methods Of Diagnosing And

Treating Weight"

Inventors: Tartaglia et al. Appl. No.: PCT/US96/19128 Filed: November 27, 1996 Publication No.: WO 97/19952 Publication Date: June 5, 1997

Priority Data: Nov. 27, 1995 (U.S. Appl. No. 08/5/2,663)

Dec. 4, 1995 (U.S. Appl. No. 08/5/6,622)
Dec. 8, 1995 (U.S. Appl. No. 08/569,485)
Dec. 11, 1995 (U.S. Appl. No. 08/570,142)
Dec. 28, 1995 (U.S. Appl. No. 08/583,153)
Jan. 22, 1996 (U.S. Appl. No. 08/599,455)
April 26, 1996 (U.S. Appl. No. 08/638,524)
Sept. 3, 1996 (U.S. Appl. No. 08/708,123)

B58 Title: "Detection of a Leptin Receptor Variant And Methods

For Regulating Obesity"
Inventors: Snodgrass et al.
Appl. No.: PCT/US97/0088
Filed: January 17, 1997

Publication No.: WO 97/26523 Publication Date: July 24, 1997

Priority Data: Vanuary 18, 1996 (U.S. Appl. No. 08/588,526)

B62 Title: "Rat OB Receptors And Nucleotides Encoding Them"

Inventors: He's et al.

Appl. No.: PCT/US97X02397 Filed: February 18, 1997 Publication No.: WO 97/3 015 Publication Date: August 28, 1997

Priority Data: Feb. 22, 1996 (N.S. Appl. No. 60/090,405)

March 22, 1996 (N.S. Appl. No. 60/013,969) April 25, 1996 (GB Appl. No. 9608473.6)

B6# Title: "Leptin Assay"

Inventors: Rosenblum *et al.* Appl. No.: PCT/US97/06505

Filed: April 18, 1997

Publication No.: WO 97/40380 Publication Date: October 30, 1997

Priority Data: April 22, 1996 (U.S. Appl. No. 60/061,051)

June 6, 1996 (G.B. Appl. No. 9611783 8) Nov. 15, 1996 (U.S. Appl. No. 60/031,002) B65 Title: "OB Protein Receptor Genes And Use Of The Same"

Inventors: Iida et al.

Appl. No.: (PCT)WOJP9701470 [97WO-J01470]

Filed: April 24, 1997

Publication No.: WO 97/41217 A1 Publication Date: November 6, 1997

Priority Data: April 30, 1996 (JP Appl. No. JP 96-13/4422)

B66 Title: "Detection Of The Leptin Receptor In Reproductive Organs And Methods For Regulating Reproductive Biology"

Organs And Methods For Regulating Reproductive Biology Inventors: Snodgrass et al.

Appl. No.: PCT/US97/07676

Filed: April 28, 1997

Publication No.: WO 97/41263

Publication Date: November 6, 1997

Priority Data: April 29, 1996 (U.S/Appl. No. 08/640,389)

B67 Tyle: "OB Receptor Isoforms And Nucleic Acids Encoding

The m"

Inventors: Caskey et al.

Appl. No.: PCT/US97/07521

Filed: May 2, 1997

Publication No.: WO/97/42340

Publication Date: November 13, 1997

Priority Data: May 6, 1996 (U.S. Appl. No. 60/016,899)

May 24, 1996 (G.B. Appl. No. 9610995.4)

B74 Title: "OB Frotein Receptor And Related Compositions And

Methods"

Inventors: Chang et al.

Appl/No.: PCT/US97/00128

Filed: January 2, 1997

Publication No.: WO 97/25424

Publication Date: July 17, 1997

Priority Data: Jan. 4, 1996 (U.S. Appl. No. 08/582,825)

Dec. 31, 1996 (U.S. Appl. No. 08/774,414)

Title: "OB, The Receptor For Leptin, Nucleic Acids

Encoding The Receptor, And Uses Thereof

Inventors: Friedman *et al.* Appl. No.: PCT/US97/01010

Filed: January 16, 1997

Publication No.: WO 97/26335 Publication Date: July 24, 1997

Priority Data: Jan.16, 1996 (U.S. Appl. No. 08/586,594)

Feb. 14, 1996 (U.S. Appl. No. 08/599,974)



B. Other

Documents:

B53 Title: "WSX Receptor And Ligands"

Inventors: Bennett et al.

Appl. No.: PCT/US97/00325

Filed: January 7, 1997

Publication No.: WO 97/25425 Publication Date: July 17, 1997

Priority Data: January 8, 1996 (U.S. Appl. No. 08/585,005)

June 20, 1996 (U.S. Appl. No. 08/667,197)

B70 Title: "A Novel Haemopoietin Receptor And Genetic

Sequences Encoding Same" Inventors: Hilton et al.

Appl. No.: PCT/AU96/00607 Filed: September 26, 1996 Publication No.: WO 97/12037 Publication Date: April 3, 1997

Priority Data: September 26, 1995 (AU Appl. No. PN 5641)

Documents B15, B16, and B65 are Japanese language patent or patent application documents and as such are being provided with English-language abstracts. Further, document B3 is the European counterpart to document B15, while document B4 is the European counterpart to document B16.

This statement and the accompanying items of information, including a Form PTO-1449, are being submitted after receipt of a first official action on the merits in the above-identified patent application under 37 C.F.R. §1.97(c). Enclosed is a check for the requisite \$240.00 fee under §1.17(p). If it is determined that any additional fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 11-1153.

Respectfully submitted,

By:

Christine E. Dietzel
Agent for Applicants
Registration No. 37,309

Date: February 24, 1998

SHEET 1 of 7

Form PTO-1449 (Modified)

ANTERNATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office Atty. Docket No. 600-1-087CIP1

Serial No. 08/438,431

Applicant

Friedman, J. et al.

Filing Date
May 10, 1995

Group 1812

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MOEMARYO	U.S. PATENT DOCUMENTS						
*Examiner Initials		Document Number	Issue Date	, Name	Class	Subclass	Filing Date If Appropriate
	A1	5,521,283	5/28/96	DiMarchi, R.D. et al.	580	324	
	A2	5,525,705	6/11/96	DiMarchi, R.D. et al.	580	324	
	A3	5,532,336	7/2/96	DiMarchi, R.D. et al.	580	324	
	A4	5,552,522	9/3/96	DiMarchi, R.D. et al.	530	324	·
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	A6	5,552,524	9/3/96	Basinski, M.B. et al.	530_	324	
	A7	5,554,727	9/10/96	Basinski, M.B. et al.	530	324	
	A8	5,559,208	9/24/96	Basinski, M.B. et al.	530	317	
	A9	5,563,243	10/8/96	DiMarchi, R.D. et al.	530	324	
	A10	5,563,244	10/8/96	DiMarchi, R.D. et al.	530	324	
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	A12	5,567,678	10/22/96	DiMarchi, R.D. et al.	530	324	
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	A15	5,569,744	10/29/96	Basinski, M.B. et al.	530	324	
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	A18	5,594,101	1/14/97	Becker, G.W. et al.	530	317	
	A19	5,594,104	1/14/97	Basinski, M.B. et al.	530	324	
	A20	5,605,886	2/25/97	Basinski, M.B. et al.	514	12	

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Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CIP1	Serial No. 08/438,431
INFORMATION DISCLOSURE	Applicant Friedman, J. et al.		
(Use several sheets if necessa		Filing Date May 10, 1995	Group 1812

	U.S. PATENT DOCUMENTS						
*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	A21	5,614,379	3/25/97	MacKellar, W.C. et al.	435	68.1	
	A22	5,643,748	7/01/97	Snodgrass, H.R. et al.	435	69.1	
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.S./

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U.S. Department of Commerce Patent and Trademark Office

Atty. Docket No. 600-1-087CIP1

Applicant Friedman, J. et al.

Filing Date Group May 10, 1995

(Use several sheets if necessary)

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	B1	EP 725078 A1	8/7/96	EP	900000	2000		
	B2	EP 725079 A1	8/7/96	EP		000000000000000000000000000000000000000		
	В3	EP 736599 A2	10/9/96	EP	9000000	20000000		
	B4	EP 741187 A2	11/6/96	EP	988999	900		
	B5	EP 743321 A2	11/20/96	EP	100000000	0,000,000		
	В6	EP 744408 A2	11/27/96	EP	300000000	0000		
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	B14	EP 797999 A2	10/1/97	EP	9900000	pparadds.		

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INFORMATION DISCLOSURE	Applicant Friedman, J. et al.		
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	B15	JP 8-333394	12/17/96	JP			000000		ABSTRACT ONLY		
	B16	JP 9-3098	1/7/97	JР					ABSTRACT ONLY		
	B17	WO 96/05861	2/29/96	PCT							
	B18	WO 96/22308	7/25/96	PCT		0000000		999999			
	B19	WO 96/23513	8/8/96	PCT		000000000000000000000000000000000000000		pan000000			
	B20	WO 96/23514	8/8/96	PCT				aa699999			
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Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CIP1	Serial No. 08/438,431	
INFORMATION DISCLOSURE	Applicant Friedman, J. et al.			
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*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Yes	No
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	B28	WO 96/24670	8/15/96	PCT	00000000	900		
	B29	WO 96/27385	9/12/96	PCT	9000000	000000		
	B30	WO 96/29405	9/26/96	PCT	200000	000000000000000000000000000000000000000		
	B31	WO 96/31526	10/10/96	PCT	00000000000	055000000		
	B32	WO 96/34111	10/31/96	PCT	00000000	000000000		
	B33	WO 96/34885	11/7/96	PCT	999	000000000000000000000000000000000000000		
	B34	WO 96/35787	11/14/96	PCT	000000	00000000		
	B35	WO 96/36641	11/21/96	PCT	0000000	00000000		
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-	B37	WO 96/37517	11/28/96	PCT	000000	000000000		
	B38	WO 96/38152	12/5/96	PCT	00000000	20000000		
	B39	WO 96/38586	12/5/96	PCT	200000	000000000		
	B40	WO 97/00319	1/3/97	PCT	000000	0,000		
	B41	WO 97/00866	1/9/97	PCT	00000000			
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Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CFP1	Serial No. 08/438,431	
INFORMATION DISCLO	SIDE STATEMENT	Applicant Friedman, J. et al.		
(Use several sheets		Filing Date May 10, 1995	Group 1812	

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	B45	WO 97/15322	5/1/97	PCT	9490000	220000000000000000000000000000000000000		
	B46	WO 97/16189	5/9/97	PCT	000000000	150000000000000000000000000000000000000		
	B47	WO 97/16550	5/9/97	PCT	9,000	999999		
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	B49	WO 97/18228	5/22/97	PCT		900000000000000000000000000000000000000		
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	B51	WO 97/20933	6/12/97	PCT	0,000	0000		
	B52	WO 97/24440	7/10/97	PCT	900000000000000000000000000000000000000	000000000000000000000000000000000000000		
	B53	WO 97/25425	7/17/97	PCT	8,500	0000000		
	B54	WO 97/26004	7/24/97	PCT	200000000000000000000000000000000000000	300		
	B55	WO 97/26011	7/24/97	PCT	000000	39,2000000		
	B56	WO 97/26012	7/24/97	PCT	90000000	100000000000000000000000000000000000000		
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	B60	WO 97/27286	7/31/97	PCT	200000000000000000000000000000000000000			
	B61	WO 97/28824	8/14/97	PCT	00000000	200025200000		
	B62	WO 97/31015	8/28/97	PCT	9900000	20005530000		
	B63	WO 97/35620	10/2/97	PCT	000000000000000000000000000000000000000	30000EEFF0000		
	B64	WO 97/40380	10/30/97	PCT	2000000	900		

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Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CIP1	Serial No. 08/438,431
INFORMATION DISCLOSU	Applicant Friedman, J. et al.		
(Use several sheets if nece		Filing Date May 10, 1995	Group 1812

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							Translation	n
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Yes	No
	B65	WO 97/41217	11/6/97	PCT	920000000000000000000000000000000000000	60000000000000000000000000000000000000	ABSTRACT ONLY	
	B66	WO 97/41263	11/6/97	PCT	ugopoonii ii	060000000000000000000000000000000000000		
	B67	WO 97/42340	11/13/97	PCT		AND VALUE OF STREET		
	B68	WO 97/46585	12/11/97	PCT	20000000	possessone		
	B69	WO 97/46587	12/11/97	PCT	0000000	000000000		
	B70	WO 97/12037	4/3/97	PCT	000000000	930000		
	B71	WO 96/40912	12/19/96	PCT	900	5005590659		
	B72	WO 97/06816	2/27/97	PCT	XXXXXXXXXXX	QGESCOOKEDOO		
	B73	WO 97/18833	5/29/97	PCT	800000058X		·	
	B74	WO 97/25424	7/17/97	PCT	99099	900022300025		
	B75	WO 97/26335	7/24/97	PCT	A CONTRACTOR OF THE CONTRACTOR	00050000000		
	B76	WO 97/32022	9/4/97	PCT	20000000000000000000000000000000000000	82000000000000000000000000000000000000		
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.S./

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PATENT 600-1-087CIP1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Friedman et al.

SERIAL NO.: 08/438,431 EXAMINER: DRAPER, G.

DATE FILED: May 10, 1995 ART UNIT: 1646
FOR: OB POLYPEPTIDES, MODIFIED FORMS AND

DERIVATIVES (AS AMENDED)

EXPRESS MAIL NO. EL406396475US

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with Applicant's and Applicant's representatives' Duty of Disclosure under 37 CFR § 1.56, and pursuant to 37 CFR § 1.97 and MPED 717.05(b), Applicant submits herewith documentary information for consideration by the Examiner. Information herein cited is only set forth in fulfillment of Applicant's duty of candor in disclosing all information brought to his attention, and is not an admission that it can be used adversely. The publications are listed on the enclosed Form PTO-1449. Applicant requests that the Examiner, upon reviewing the enclosed materials, initial the enclosed form and return a copy thereof in accordance with the instructions on the form.

In accordance with 37 C.F.R. §1.56 and §1.97, the references listed on the attached form PTO-1449 are being brought to the tention of the Examiner for consideration in connection with the examination of the above identified patent application.

In as much as a copy of References A25 through C118 listed on the attached PTO Form-1449, have been provided to the Examiner, particularly with regard to 08/485,942 (our Reference 600-1-087CIP2F) they are not enclosed herewith. Should the Examiner wish a copy of any or all references, they will be promptly provided upon her request.

<u>Fee</u>

Applicants believe to fee is required in filing this Information Disclosure Statement, however, should this be in error, please charge any additional fees, or credit any overpayments, to Klauber & Jackson Deposit Account 11-1153. A duplicate of this paper is being submitted for accounting purposes.

It is respectfully requested that the Examiner make these references of record, and to indicate consideration thereof by returning a copy of the attached form TO-1449 with initials or other appropriate marks.

Respectfully submitted

Christine E. Dietzel, Ph.D. Agent for Applicant(s) Registration No. 37,309

KAUBER & JACKSON 411 Hackensack Avenue Hackensack, New Jersey 07601 (201)487-5800 As a courtesy to the Examiner, and for ease of review, Applicants believe that the documents listed on the accompanying Form PTO-1449 may be organized as set forth below (each listing includes: Form PTO-1449 document number, title, inventor(s), patent number and/or application number, filing date, publication date, and where applicable, priority dates). As a further courtesy to the Examiner, the applicants have included, as Appendix a copy of the front page of each patent or patent application listed in the IDS and PTO Form-1449.

I.	Proteins/Pro	in Analogs (Non-l	Leptin)
A28	5,859,034	Skelly et al.	Cysteine depleted IL-6 muteins
A32	5,480,981	Goodwin et al.	CD30 ligand
B80	WO 83/04053	[Consensus Inter	rferon]
B81	WO 89/10932	[G-CSF]	
C57	Kaiser et al., "A	mphiphilic Second	lary Structure: Design of Pentide Hornsones"

Lerner et al., "Synthetic Vaccines"

C67

II.	Fusion Protein	ıs	
A25	5,073,627	Curtis et al.	Fusion proteins comprising GM-CSF and IL-3
A26	5,116,964	Capon et al.	Hybrid immunoglobulins
A27	5,225,538	Capon et al.	Lymphocy homing receptor/immunoglobulin fusion proteins
A29	5,428,130	Capon et al.	Hybrid immuno lobulins
A30	5,447,851	Beutler et al.	D) A encoding a chaneric polypeptide comprising the extracellular
domain	of TNF receptor	fused to IgG, vector	ors, and host cells
A31	5,455,165	Capon et al.	Expression vector encoding hybrid immunoglobulins
A33	5,514,582	Capon et al.	Recombinant DNA encoding hybrid immunoglobulins
A35	5,670,625	Lyman et al.	Elk ligand fusion proteins
A36	5,714,147	Capon et al.	Hybrid immunoglobulins
A38	5,739,277	Presta et al.	Altered polypeptides with increased half-life
B84	WO 96/031/1	[Chimeric TNF r	eceptor/Ig constant domain]
B85	WO 96/04388	[IL-4 mutant fuse	ed to Ig constant domain]
B88	WQ/96/18412	[IL-10/Fc chimer	ric protein]

- B90 WO 97/24137 [interferon/immunoglobulin Fc hybrid]
- C9 "Designing CD4 immunoadhesins for AIDS therapy"
- Ellison et al., "The nucleotide sequence of a human immunoglobulin C 1 gene"
- C22 Fisher et al., "Treatment of Septic Shock with the Tumor Necrosis Factor Receptor:Fc Fusion Protein"
- C24 Ford et al., "Fusion Tails for the Recovery and Purification of Recombinant Proteins"
- C36 Harvill et al., An IgG3-IL2 fusion protein activates complement, binds Fc RI, generates LAK activity and shows enhanced binding to the high affinity IL-2R"
- C47 Huse et al. "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda"
- C48 IBI Flag Biosystem, "High Expression, Detection, and Purification of Recombinant Proteins in E. coli"
- C49 IBI Flag Epitope, "A Technical Bulletin for Users of FLAG Technology"
- C76 Mini-Symposium on Flag Technology, ASCB 1992, "Purification and Characterization of Cellular Proteins with the Flag Epitope"
- C84 Palmiter et al., "Metallothionein Human GH Fusion Genes Scimulate Growth of Mice"
- C103 Van Zee et al., "Protection Against Dethal Escherichia coli Bacteremia in Baboons (Papio anubis) by Pretreatment with a 55-kDA TNF Receptor (CD120a)-Ig Fusion Protein, Ro 45-2081"
- C117 Zheng et al., "Administration of Noncytolytic IL-10/Fc in Murine Models of Lipopolysaccharide-Induced Septic Shock and Allogeneic Islet Transplantation"

III. Protein Derivatives/Conjugates

- A34 5,574,018 Habberfield et al. Conjugates of vitamin B12 and proteins
- B79 EP 0 401 384 ' [PEG-modified G-CSF]
- B82 WO 94/20069 [Dispersions of PEG-G-CSF for pulmonary delivers
- B83 WO 95/21629 [Oxal delivery of chemically modified proteins]
- B87 WO 96/11953 [N-terminally chemically modified G-CSF and consensus in erferon]
- B89 WO 96/2998 [anionic phospholipid/protein complex]
- IV. Aptibodies

- C4 Baron et al., "Antibodies against the Chemically Synthesized Genome-Linked Protein of Poliovirus React with Native Virus-Specific Proteins"
- C17 Dressman et al., "Antibody to hepatitis B surface antigen after a single inoculation of uncoupled sympletic AbsAg peptides"
- C64 Köhler et al., "Derivation of specific antibody-producing tissue culture and tumor lines by cell usion"
- C65 Perner et al., "Antibodies to Chemically Synthesized Peptides Predicted from DNA Sequences as Probes of Gene Expression"
- C66 Lerner et al., "Chemically synthesized peptides predicted from the nucleotide sequence of the hepatitis B virus genome elick antibodies reactive with the native envelope protein of Dane particles"

V. Leptin Proteins/Anglogs

- A37 5,719,266 DiMarchi et al. Anti-Obesity Proteins March 17, 1995
- B78 AU-B-51978/96 Campfield et al. Recombinant Obese (OB) Proteins March 5, 1998
- B86 WO 96/05309 Friedman et al. Modulators of body weight, corresponding nucleic acids and diagnostic and therapeutic uses thereof
- C1 "Expression and Purification of a Synthetic Human Obese Gene Product"
- C27 GenBank Accession No. 603288
- C28 GenBank Acession No. 623332
- C29 GenBank Accession No. 726297
- C30 GenBank Accession No. U18812
- C31 GenBank Accession No. U18915
- C32 GenBank Accession No. U2/421

VI. OB Gene/Gene Expression

- C12 Coleman et al. "The Influence of Genetic Background on the Expression of the Obese (Ob) Gene in the Mouse"
- C14 Considire et al., "Ob Gene Expression Is Increased in Adipocytes from Obese Humans."
- C25 Fregerich et al., "Nutritional Regulation of ob Gene mRNA in White Adipose Tissue"
- C35 Hamilton et al, "Increased obese mRNA expression in omental fat cells from massively obese humans"

- C38 He et al., "The Mouse obese Gene"
- C52 Isse et al., "Structural Organization and Chromosomal Assignment of the Human obese Gene"
- Masuzaki et al., "Molecular cloning of a Rat Obese (ob) Complement DNA Augmented Gene Expression in Obese-Hyperglycemic Wistar Fatty Rats"
- C74 Masuzaki et al., "Adipose Tissue-specific Expression of the Obese (ob) Gene in Rats and Its Marked Augmentation in Genetically Obese-hyperglycemic Wistar Fatty Rats"
- C77 Mizund et al., "Elevated Expression of Obese (ob/ob) Gene Product in Adipose Tissue, and Impaired Induction by Insulin of Jun-B MRNA in Liver, in Genetically Obese Yellow Mice"
- C78 Moinat et al., "Modulation of obese gene expression in rat brown and white adpose tissues"
- C80 Murakami et al., Cloning of Rat Obese cDNA and its Expression in Obese Rats"
- C81 Nakamura, "Another Obese Gene Function"
- C82 Ogawa et al., "Region-Specificities of the Obese (ob) Gene Expression in Adipose Tissue in Mice and Altered Gene Expression in C57BL/o ob/ob Mice"
- C89 Reddy et al., "Equivalent Levels of OB Gene Expression in Adipose Tissues of Morbidly Obese and Lean Patients"
- C93 Shigemoto et al., "Tissue Distribution of the Obese (06) Gene Expression in Mice and Augmented Gene Expression in the ob/ob Mice"
- C96 Stirling et al., "Identification of Microsatellite Tarkers Near the Human ob Gene and Linkage Studies in NIDDM-Affected Sib Pairs"
- C104 Vydelingum et al., "Overexpression of the Obese Gene in the Genetically Obese JCR:LA-Corpulent Rat"
- C116 Zhang et al., "Down-regulation of the Expression of the Obese Gene by an Antidiabetic Thiazolidinedione in Zucker Diabetic Fatty Rats and db/db Mige"

VII. Leptin/Methods of Treakment

- A39 5,756,461 Stephens Methods for treating diabetes
- A40 5,827,734 Weigle et al. Materials and methods for determining ob protein in a biological sample
- C2 Angier, "Researchers Link Obesity in Humans to Flaw in a Gene"
- C3 Barina a, "Obese' Protein Slims Mice"
- C6 Bishop, "Newfound Gene May Control Fat Storage"

- C7 Bishop, "Rockefeller Study Supports Theory That Body Has Fat-Maintenance System"
- C15 Cusin et al., "The ob Gene and Insulin A Relationship Leading to Clues to the Understanding of Obesity"
- Detjen, "Obesity gene find may help millions someday,"
- C21 Ferré, Obésité. Produit de Gène ob Et Contrôle De La Masse Adipeuse"
- C23 Klam, "Obesity Gene Discovery May Help solve Weighty Problem"
- C26 Frederich et al., "Leptin levels reflect body lipid content in mice: Evidence for diet-induced resistance to leptin action"
- C37 Hawkes, "Obesity of Mice and Men"
- C39 Helm, "Gene Found That May Lead To Obesity"
- C41 Highfield, "Scientists find cause of fat mice and men Gene discovery from overweight rodents may help to produce drugs for people with a hereditary risk of obesity"
- C44 Hodgson, "'Obesity' When Less is More"
- C68 Levin et al., "Decreased food intake does not completely account for adiposity reduction after ob protein infusion"
- C69 LindPaintner, "Clinical Implications of Basic Research: Finding an Obesity Gene-A Tale of Mice and Man"
- C70 Marx, "Obesity Gene Discovery May Help Solve Weighty Problem" (1995)
- C71 Marx, "Obesity Gene Discovery May Help Solve Weighty Problem" (December, 1994)
- C75 McGarry, "Does leptin lighten the problem of obesity?"
- C83 Olefsky, "Weighing in on the Lean Genes"
- C90 Rink, "In Search of a Satiety Factor"
- C91 Schwartz et al., "Specificity of Leptin Action on Elevated Blood Queose Levels and Hypothalamic Neuropeptide Y Gene Expression in ob/ob Mice"
- C95 Stephens et al., "The Role of Neuropeptide Y in the Antiobesity Action of the Obese Gene Product"
- C106 Watson, "What really plumps you up"
- C108 Weigle et al., "Recombinant ob Protein Reduces Feeding and Body Weight in the ob/ob Mouse"
- VIII. Leptin Receptor
- C5 Fennett et al., "A role for leptin and its cognate receptor in hematopoiesis"

- C10 Chen, "Evidence That the Diabetes Gene Encodes the Leptin Receptor: Identification of a Mutation in the Leptin Receptor Gene in db/db Mice"
- Cioffi et al., "Novel B219/OB receptor isoforms: Possible role of leptin in hematopoiesis and reproduction"
- C50 Iida et al., "Substitution at Codon 269 (Glutamine OProline) of the Leptin Receptor (OB-R) DNA Is the Only Mutation Found in the Zucker Fatty (fa/fa) Rat
- C100 Tartaglia et al., "Identification and Expression Cloning of a Leptin Receptor, OB-R"
- IX. Obesity Treatments (general)
- C8 Campfield, "Strategies and Potential Molecular Targets for Obesity Treatment"
- C13 Comuzzie et al., "The Search for Human Obesity Genes"
- C19 Enerbäck et al., "Mice lacking mitochondrial uncoupling protein are cold-sensitive but not obese"
- C20 Evans et al., "Relationship of Body Fat Topography to Insulin Sensitivity and Metabolic Profiles in Premenopausal Women"
- C33 Grundy & Barnett, "Metabolic and Health Complications of Obesity"
- C34 Gura, "Uncoupling Proteins Provide New Che to besity's Causes"
- C42 Hill et al., "Environmental Contributions to the Obesity Epidemic"
- C43 Hirsch, "Some heat but not enough light",
- C45 Hulsey et al., "An Anorectic Agent From Adipose Tissue of Overfed Rats: Effects of Feeding Behavior"
- C46 Hummel et al., "Diabetes, a New Mutation in the Mouse"
- C54 Jeanrenaud, "An hypothesis on the aetiology of obesity: dysfunction of the central nervous system as a primary cause"
- C55 Jeanrenaud, "Central Norvous System and Peripheral Abnormalities: Clues to the Understanding of Obesity and NIDDM"
- C56 Jeanrenaud, "New oendocrine and Metabolic Basis of Type II diabetes as Studied in Animal Models"
- C59 Kiberstis et al., "Regulation of Body Weight"
- C60 Kissebah et al., "Health Risks of Obesity"
- C61 Kissebah et al., "Regional Adiposity & Morbidity"
- C85 Pairis et al., "Glucose Metabolism in Obesity: Influence of Body Fat Distribution"

- C86 Peiris et al., "Relationship of Body Fat Distribution to the Metabolic Clearance of Insulin in Premenopaus Women"
- Peiris et al., "Splanchinic Insulin Metabolism in Obesity Influence of body Fat Distribution"
- Class Taubes, "As Obesity Rates Rise, Experts Struggle to Explain Why"
- C102 Thomas et al., "Thermoregulatory and metabolic phenotypes of mice lacking noradrenaline and adrenaline"
- C105 Walsh et al., "Eating Disorders: Progress and Problems"
- C107 Weigle et al., "Appetite and the regulation of body composition"
- C109 West et al., Genetics of Dietary Obesity in AKR/J X SWR/J Mice Segregation of the Trait and Identification of a Linked Locus on Chromosome-4"
- C110 Wickelgren, "Obesity: How Big a Problem?"
- C112 Wilson et al., "Identification of an overfeeding-induced adipocyte 5kb mRNA Lacking Sequence Homology to Known Adipocyte Genes"
- C113 Woods et al., "Signals That Regulate Food Intake and Energy Homeostasis"
- C114 Yamakawa et al., "Augmented Production of Tumor Necross's Factor- in Obese Mice"
- C115 Zarjevski et al., "Chronic Intracerebro entricular Neuropeptide-Y Administration to Normal Rats Mimics Hormonal and Metabolic Changes of Obesity"
- C118 Zucker et al., "Fatty, A New Mutation in the Rat"

X. Diabetes Treatments (general)

- C40 Henry, "Effects of Weight Loss on Mechanisms of Hyperglycemia in Obese Non-Insulin-Dependent Diabetes Mellitus"
- C51 Ikeda et al., "Effects of Pioglicazone on Glucose and Lipid Metabolism in Normal and Insulin Resistant Animals"
- C53 Iwanishi et al., "Effect of Pioglitazone on Insulin Receptors of Skeletal Muscles From High-Fat-Fed Rats"
- C58 Kallen et al., "Antimabetic thiazolidinediones inhibit leptin (ob) gene expression in 3T3-L1 adipocytes"
- C62 Kletzien et al., Adipocyte Fatty Acid-Binding Protein: Regulation of Gene Expression In Vivo and In Vitro by an Insulin-Sensitizing Agent"
- C63 Kobayas i et al., "Pioglitazone Increases Insulin Sensitivity by Activating Insulin Receptor Kinase"
- C72 Mass da et al., "Effects of Troglitazone (CS-045) on insulin secretion in isolated rat pancreatic islets and HIT cells: In insulinotropic mechanism distinct from glibenclamide"

- C79 Murakami et al., "Amelioration of insulin resistance in genetically obese rodents by M16209, a new antidiabetic agent"
- C88 Polonsky et al., "Use of Biosynthetic Human C-peptide in the Measurement of Insulin Secretion Rates in Volunteers and Type I Diabetic Patients"
- C92 Shafrir, "Animal Models of Non-Insulin-Dependent Diabetes"
- C94 Sohda et al., "Studies on Antidiabetic Agents. XII. 1) Synthesis and Activity of the Metabolites of (+/-)-5-[p-[2-(5-Etryl-2-pyridyl)ethoxy]benzyl]-2-4-thiazolidinedione (Pioglitazone)"
- C97 Sugiyama et al., "Effects of Pioglitazone on Glucose and Lipid Metabolism in Wistar Fatty Rats"
- C98 Sugiyama et al., Effects of Pioglitazone on Hepatic and Peripheral Insulin Resistance in Wistar Fatty Rats"
- C99 Swanson et al., Antidiabetic Agent Pioglitazone Increases Insulin Receptors on 3T3-L1 Adipocytes"
- C111 Willson et al., "The Structure-Activity Relationship between Peroxisom Proliferator-Activated Receptor Agonism and the Antihypergly emic Activity of Thiazolidinediones"

SHEET <u>1</u> of <u>12</u>

Form PTO-1449 (Modified) U.S. Department of Commerce Atty. Docket No. Serial No. Patent and Trademark Office 600-1-087CIP1 08/438,431 Applicant Jeffrey Friedman et al. **PERFORMATION DISCLOSURE STATEMENT** Filing Date Group May 10, 1995 1646

(Use several sheets if necessary)

WANTED HEAVE								
U.S. PATENT DOCUMENTS								
*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate	
	A25	5,073,627	12/17/91	Curtis et al.	530	351		
	A26	5,116,964	05/26/92	Capon et al.	536	27		
	A27	5,225,538	07/06/93	Capon et al.	530	387.3		
	A28	5,359,034	10/25/94	Skelly et al.	530	351		
	A29	5,428,130	06/27/95	Capon et al.	530	350		
	A30	5,447,851	09/05/95	Beutler et al.	435	69.7		
	A31	5,455,165	10/03/95	Capon et al.	435	64.7	,	
	A32	5,480,981	01/02/96	Goodwin et al.	536	28.5		
	A33	5,514,582	05/07/96	Capon et al.	435	252.3		
	A34	5,574,018	11/12/96	Habberfield et al.	514	2		
	A35	5,670,625	09/23/97	Lyman et al.	530	3\$7.3		
	A36	5,714,147	02/03/98	Capon et al.	424	178.1		
	A37	5,719,266	02/17/98	DiMarchi et al.	530	350		
	A38	5,739,277	4/14/98	Presta et al.	530	326		
	A39	5,756,461	05/26/98	Stephens, T.W.	514	12		
-	A40	5,827,734	10/27/98	Weigle et al.	435	325		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.S./

EXAMINER DATE CONSIDERED

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SHEET <u>2</u> of <u>12</u>

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CIP1	Serial No. 08/438,431
INFORMATION DISCLOSURE	T STATEMENT	Applicant Jeffrey Friedman et al.	
(Use several sheets if necessor		Filing Date May 10, 1995	Group 1646

FOREIGN PATENT DOCUMENTS									
							Tran	Translation	
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Yes	No	
	B78	AU-B-51978/96	03/05/98	AU		000	~		
	B79	EP 0 401 384	12/12/90	EP	00000	000000			
	B80	WO 83/04053	11/24/83	WIPO	000000000	900000000			
	B81	WO 89/10932	11/16/89	WIPO	000000000000000000000000000000000000000		,		
	B82	WO 94/20069	09/15/94	WIPO	0000000000	000000000000000000000000000000000000000			
	B83	WO 95/21629	08/17/95	WIPO	90000000000000000000000000000000000000	90000000000			
	B84	WO 96/03141	02/08/96	WIPO.		>>>			
	B85	WO 96/04388	02/15/96	WIPO	33333333	30000005555900			
	B86	WO 96/05309	02/22/96	WIPO	200000000	90000000000	:		
	B87	WO 96/11953	04/25/96	WIPO	000000000	000000000000000000000000000000000000000			
	B88	WO 96/18412	06/20/96	WIPO	0000000	9000055555			
	B89	WO 96/29989	10/03/96	WIPO	000000000	000000000000000000000000000000000000000			
	B90	WO 97/24137	07/10/97	WIPO	000000	0000000000			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)				
	C1	Altman, S.W. et al., "Expression and Purification of a Synthetic Human Obese Gene Product," Protein Expression and Purification, 6:722-726 (1995).		
	C2	Angier, N., "Researchers Link Obesity In Humans To Flaw In A Gene," <i>The New York Times</i> reported on December 1, 1994.		

EXAMINER	DATE CONSIDERED
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SHEET <u>3</u> of <u>12</u>

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Atty. Docket No. 600-1-087CIP1

Applicant Jeffrey Friedman et al.

Filing Date Group May 10, 1995

May 10, 1995

Atty. Docket No. 600-1-087CIP1

Serial No. 08/438,431

Applicant Jeffrey Friedman et al.

 	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
 C3	Barinaga, " 'Obese' Protein Slims Mice", Science, 269:475-476 (July, 1995).
C4	Baron, M.H. et al., "Antibodies against the Chemically Synthesized Genome-Linked Protein of Poliovirus React with Native Virus-Specific Proteins," Cell, 28:395-404 (February, 1982).
 C5	Bennett, B.D. et al., "A role for leptin and its cognate receptor in hematopoiesis," Current Biology, 6(9):1170-1180 (September 1, 1996).
С6	Bishop, J.E., "Newfound Gene May Control Fat Storage," The Wall Street Journal, Health and Science, reported on December 1, 1994.
 C7	Bishop, J.E., "Rockefeller Study Supports Theory That Body Has Fat-Maintenance System," Wall Street Journal, reported on March 9, 1995.
C8	Campfield, L.A. et al., "Strategies and Potential Molecular Targets for Obesity Treatment," Science, 280:1383-1387 (May, 1998).
С9	Capon, D.J. et al., "Designing CD4 immunoadhesins for AIDS therapy," Nature, 337:525-531 (February, 1989).
C10	Chen, H. et al., "Evidence That the Diabetes Gene Encodes the Leptin Receptor: Identification of a Mutation in the Leptin Receptor Gene in db/db Mice," Cell, 84:491-495 (February, 1996).
C11	Cioffi, J.A. et al., "Novel B219/OB receptor isoforms: Possible role of leptin in hematopoiesis and reproduction," <i>Nature Medicine</i> , 2(5):585-589 (May, 1996).
C12	Coleman, D.L. et al., "The Influence of Genetic Background on the Expression of the Obese (Ob) Gene in the Mouse," Diabetologia, 9:287-293 (1973).
C13	Comuzzie, A.G. et al., "The Search for Human Obesity Genes," Science, 280:1374-1377 (May, 1998).
C14	Considine, R.V. et al., "Ob Gene Expression Is Increased in Adipocytes from Obese Humans," Diabetes, 44:202A (May, 1995) (ABSTRACT 739).
 C15	Cusin I. et al., "The ob Gene and Insulin A Relationship Leading to Clues to the Understanding of Obesity," Diabetes, 44:1467-1470 (December, 1995).

EXAMINER	DATE CONSIDERED

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SHEET <u>4</u> of <u>12</u>

Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Atty. Docket No. 600-1-087CIP1

Serial No. 08/438,431

Applicant

Jeffrey Friedman et al.

Filing Date
May 10, 1995

Group 1646

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

_		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	C16	Detjen, J. (Philadelphia Inquirer), "Obesity gene find may help millions someday," The Durham Herald Co., <i>The Herald-Sun</i> (Durham, NC), pg. A1, reported on December 1, 1994.
	C17	Dressman, G.R. et al., "Antibody to hepatitis B surface antigen after a single inoculation of uncoupled synthetic HbsAg peptides," Nature, 295:158-160 (January, 1982).
	C18	Ellison, J.W. et al., "The nucleotide sequence of a human immunoglobulin Cγ ₁ gene," Nucleic Acids Research, 10(13):4071-4079 (1982).
	C19	Enerbäck, S. et al., "Mice lacking mitochondrial uncoupling protein are cold-sensitive but not obese," <i>Nature</i> , 387:90-93 (May, 1997).
	C20	Evans, D.J. et al., "Relationship of Body Fat Topography to Insulin Sensitivity and Metabolic Profiles in Premenopausal Women," <i>Metabolism</i> , 33(1):68-75 (January, 1984).
	C21	Ferré, P, "Obésité. Produit de Gène ob Et Contrôle De La Masse Adipeuse [Obesity, The ob Gene Product and Control of Adipose Mass]," Diabete & Metabolisme (Paris), 21:217-218 (1995).
	C22	Fisher, C.J. et al., "Treatment of Septic Shock with the Tumor Necrosis Factor Receptor:Fc Fusion Protein," N. Engl. J. Med., 334:1697-1702 (1996).
	C23	Flam, "Obesity Gene Discovery May Help Solve Weighty Problem," Science, 266:1477-1478 (December, 1994).
	C24	Ford, C.F. et al., "Fusion Tails for the Recovery and Purification of Recombinant Proteins," Protein Expression and Purification, 2:95-107 (1991).
	C25	Frederich, R. et al., "Nutritional Regulation of ob Gene mRNA in White Adipose Tissue," <i>The Endocrine Society</i> , Programs & Abstracts, 77th Meeting, June 14-17, 1995, Washington, D.C., p.173 (ABSTRACT OR25-3)
	C26	Frederich R.C. et al., "Leptin levels reflect body lipid content in mice: Evidence for diet-induced resistance to leptin action," <i>Nature Medicine</i> , 1(12):1311-1314 (December, 1995).

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.S./

EXAMINER

DATE CONSIDERED

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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			<u> </u>
Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CIP1	Serial No. 08/438,431
INFORMATION DISCLO	SURE STATEMENT	Applicant Jeffrey Friedman et al.	
(Use several sheets		Filing Date May 10, 1995	Group 1646

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
C27	GenBank Accession No. 603288, ob, Deposited by Zhang et al., March 30, 1995.
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SHEET <u>6</u> of <u>12</u>

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CIP1	Serial No. 08/438,431
INFORMATION DISCLOSU	RE STATEMENT	Applicant Jeffrey Friedman et al.	
(Use several sheets if nece		Filing Date May 10, 1995	Group 1646

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SHEET <u>7</u> of <u>12</u>

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 600-1-087CIP1	Serial No. 08/438,431
INFORMATION DISCLOSURE STATEMENT Applicant Jeffrey Friedman et		n et al.	
(Use several sheets if nece	·	Filing Date May 10, 1995	Group

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SHEET <u>8</u> of <u>12</u>

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U.S. Department of Commerce Patent and Trademark Office Atty. Docket No. 600-1-087CIP1

Serial No. 08/438,431

Applicant

Jeffrey Friedman et al.

Filing Date
May 10, 1995

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SHEET <u>9</u> of <u>12</u>

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Serial No. 08/438,431

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Jeffrey Friedman et al.

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SHEET <u>10</u> of <u>12</u>

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INFORMATION DISCLOSURE STATEMENT

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Atty. Docket No. 600-1-087CIP1 O8/438,431

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SHEET <u>11</u> of <u>12</u>

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INFORMATION DISCLOSURE STATEMENT

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Atty. Docket No. 600-1-087CIP1 08/438,431

Applicant Jeffrey Friedman et al.

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INFORMATION DISCLOSU	RE STATEMENT	Applicant Jeffrey Friedman et al.		
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PATENT: 600-1-087CIP1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PPLICANT(S): Friedman et al.

SERIAL NO.: CPA of 08/438,431

EXAMINER: Draper G.

DATE FILED: 05/10/95

ART UNIT: 1646

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(As Amended)

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Assistant Commissioner for Ratents Washington, D.C. 20231

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with Applicant's and Applicant's representatives' Duty of Disclosure under 37 CFR § 1.56, and pursuant to 37 CFR §1.97 and MPEP 717.05(b), Applicant(s) submit herewith documentary information for consideration by the Examiner. Information herein cited is only set forth in fulfillment of Applicant's duty of candor in disclosing all information brought to his attention, and is not an admission that it can be used adversely. The publications forwarded herewith are listed on the enclosed Form PTO-1449. Applicant(s) request that the Examiner, upon reviewing the enclosed materials, initial the enclosed form and return a copy thereof in accordance with the instructions on the form

Enclosed please find copies of References A41 through A42 listed on the attached Form PTO-1449. Reference A41, issued US Patent No. 5,512457 of Lyman et al., is a priority document for Applicants' earlier disclosed A35 reference. Reference A42, issued US Patent No. 5,098,833 of Lasky et al., is a priority document for Applicants' carlier disclosed A36 reference.

No fee is believed due for the filing of this statement inasmuch as it is being filed before the mailing of the first official action on the merits. However, should the Patent and Trademark Office determine otherwise, authorization is hereby given to charge Deposit Account No. 11-1153 for this filing.

Respectfully submitted,

iristine E. Dietzel Agent for Applicants Registration No. 37,309

411 Mackensack Avenue Hakkensack, New Jersey 07601 **2**01) 487-5800

E-mail: info@kjiplaw.com

KLAU**j**ÆR & JACKSON

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LIST OF DOCUMENTARY INFORMATION CITED BY APPLICANT

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		Sheet 1 of 1
ATTORNEY	600-1-087CIP1	
SERIAL NO.	08/438,431	
APPLICANT	Friedman et al.	
FILING DATE	05/10/95	
GROUP	1646	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	A41	5,512,457	4/30/96	Lyman et al.	* Bankan	***************************************	
	A42	5,098,833	3/24/92	Lasky et al.	No. of Concession, Name of Street, or other Persons, Name of Street, or other Persons, Name of Street, Original Persons, Original Pers	The state of the s	

FOREIGN PATENT DOCUMENTS

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PATENT 600-1-087CIP1

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PPLICANT(S): Friedman et al.

SERIAL NO.: 08/438,431

EXAMINER: DRAPER. G.

QATE FILED: May 10, 1995

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Name of Registered Representative

(Signature and Date)

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with Applicant's and Applicant's representatives' Duty of Disclosure under 37 CFR § 1.56, and pursuant to 37 CFR § 1.97 and MPEP 717.05(b), Applicant submits herewith documentary information for consideration by the Examiner. Information herein cited is only set forth in fulfillment of Applicant's dut of candor in disclosing all information brought to his attention, and is not an admission that it can be used adversely. The publications are listed on the enclosed Form PTO-1449. Applicant requests that the Examiner, upon reviewing the enclosed materials, initial the enclosed form and leturn a copy thereof in accordance with the instructions on the form.

In accordance with 37 C.F.R. §1.56 and §1.97, the references listed on the attached form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application.

Enclosed please find a copy of Reference C119 listed on the attached PTO Form-1449. C119 is the origina Genbank entry of the Mus musculus obese (ob) mRNA, deposited by Zhang , Y. et al on December 21, 1994. This entry was replaced by the Genbank entry deposited on March 30, 1995, previously disclosed to the Examiner as reference C30 and discussed in the IDS filed on March 8, 2000.

No fee is believed due for the filing of this Information Disclosure Statement, However, should the Patent and Trademark Office determine otherwise, authorization is hereby given to charge Deposit Account No. 11-1153 for this filing.

Respectfully submitted.

Christine E. Dietzel, Ph.D. Agent for Applicant(s)

Registration No. 37,309

KLAUBER & JACKSON 411 Hackensack Avenue Hackensack, New Jersey 07601 (201)487-5800

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APPLICANT Jeffrey Friedman et al.
FILING DATE May 10, 1995

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
-						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/C.S./	C119	Genbank Accession No. U18812, Mus musculus obese precursor (ob) mRNA, complete cds., deposited by Zhang, Y. et al., December 21, 1994

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